

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. - 2 (canceled)..

3. (currently amended): A stereoscopic image encoding and decoding device, comprising

 a stereoscopic image encoding device and a stereoscopic image decoding device, wherein said stereoscopic image encoding device includes

 a stereoscopic image pre-processor for multiplexing left-eye images, right-eye images, and high resolution added images for turning the left-eye images or the right-eye images to ~~the~~ images of high resolution and forming one image, and

 an image encoding unit for encoding said one image processed by the stereoscopic image pre-processor, while

 said stereoscopic image decoding device includes

 an image decoding unit for decoding said one image encoded by the image encoding unit, and a stereoscopic image post-processor for separating said one image decoded by the image decoding unit into the left-eye images, the right-eye images, and the high resolution added images for turning the left-eye images or the right-eye images to the images of high resolution: and

wherein ones of the left-eye images, the right-eye images, and the high resolution added images, are arranged in two of the odd lines of the (3n+1)th frame (n is an integer of 0 and more), the even lines of the (3n+1)th frame, the odd lines of the (3n+2)th frame, the even lines of the (3n+2)th frame, the odd lines of the (3n+3)th frame, and the even lines of the (3n+3)th frame.

the other ones are arranged in the other two of the odd lines of the $(3n+1)$ th frame, the even lines of the $(3n+1)$ th frame, the odd lines of the $(3n+2)$ th frame, the even lines of the $(3n+2)$ th frame, the odd lines of the $(3n+3)$ th frame, and the even lines of the $(3n+3)$ th frame,

further the other ones are arranged in the remaining two lines out of the odd lines of the $(3n+1)$ th frame, the even lines of the $(3n+1)$ th frame, the odd lines of the $(3n+2)$ th frame, the even lines of the $(3n+2)$ th frame, the odd lines of the $(3n+3)$ th frame, and the even lines of the $(3n+3)$ th frame, and

the images arranged in the odd lines and the even lines of the same frame are defined as interlace images.

4. (original): The stereoscopic image encoding and decoding device as set forth in claim 3, wherein

ones of the left-eye images, the right-eye images, and the high resolution added images are arranged in a left $1/3$ portion of one image, the other ones are arranged in a middle portion of said one image, and further the other ones are arranged in a right $1/3$ portion of said one image.

5. (original): The stereoscopic image encoding and decoding device as set forth in claim 3, wherein

ones of the left-eye images, the right-eye images, and the high resolution added images are arranged in a top $1/3$ portion of one image, the other ones are arranged in a middle portion of said one image, and further the other ones are arranged in a bottom $1/3$ portion of said one image.

6. (currently amended): The stereoscopic image encoding and decoding device as set forth in claim 3, wherein

when the images of high resolution are the left-eye images, ones of the right-eye images and the images of high resolution formed by the left-eye images and the high resolution added images for turning the left-eye images to the high resolution images, are arranged in the left 1/3 to 2/3 portion of one image and the other ones are arranged in the right 1/3 to 2/3 portion of said one image,

when the images of ~~high resolution~~ resolution are the right-eye images, ones of the left-eye images and the images of high resolution formed by the right-eye images and the high resolution added images for turning the right-eye images to the high resolution images, are arranged in the left 1/3 to 2/3 portion of one image and the other ones are arranged in the right 1/3 to 2/3 portion of said one image.

7-13. (canceled).

14. (currently amended): The stereoscopic image encoding and decoding device as set forth in claim ~~13~~, wherein

ones of the left-eye images, the right-eye images, and the high resolution added images are arranged in the odd lines of the $(3n+1)$ th frame and the even lines of the $(3n+2)$ th frame (n is an integer of 0 and more), the other ones are arranged in the even lines of the $(3n+1)$ th frame and the odd lines of the $(3n+3)$ th frame, and further the other ones are arranged in the odd lines of the $(3n+2)$ th frame and the even lines of the $(3n+3)$ th frame, and the images arranged in the odd lines and the images arranged in the even lines of the same frame are defined as interlace images.

15-20. (canceled).